

No. 150.



JAMAICA

WEATHER REPORT

FOR THE MONTH OF

OCTOBER, 1892.

OC
987
J25
W34
1892
[Oct.]

KINGSTON:—METEOROLOGICAL RESULTS.

Elevation above Sea-level 50 feet.

Date.	Pressure.		Temperature.					Dewpoint.		Humidity.		WIND.					Total miles of wind.	
	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Max.	Min.	Range.	7 a.m.	3 p.m.	7 a.m.	3 p.m.	Direction from, and miles per hour.						
												7 a.m.	3 p.m.	Means for the day.				
	In.	In.	"	"	"	"	"	"	"									
1	29.980	29.899	75.4	85.7	88.0	72.8	15.2	72.3	73.2	90	67	Z	0	S	5	S	3	66
2	.984	.885	74.4	81.3	87.3	72.0	15.3	72.7	73.7	94	78	N	1	S	4	SSW	2	58
3	.928	.873	74.6	78.2	87.3	72.1	15.2	72.5	75.7	93	92	Z	0	W	5	SSW	2	43
4	.936	.909	75.4	79.4	81.5	73.7	7.8	74.5	73.0	97	81	N	2	SSE	1	SSE	1	32
5	.977	.935	73.7	85.0	86.7	71.2	15.5	73.3	72.5	95	66	N	1	S	6	S	2	51
6	.959	.894	72.4	85.8	87.5	71.3	15.7	69.3	76.7	90	76	Z	0	S	4	S	2	58
7	.968	.925	74.9	85.9	87.5	73.3	14.2	72.7	70.9	93	61	Z	0	SSE	8	SSE	4	91
8	30.005	.922	75.5	85.9	89.7	73.8	15.9	73.4	72.5	93	65	N	3	SSE	8	SE	4	103
9	29.957	.861	74.6	83.2	90.7	71.8	18.9	70.0	70.6	86	66	N	1	ESE	10	ESE	5	112
10	.899	.847	77.2	81.6	85.3	73.4	11.5	70.7	72.2	80	73	N	2	SE	7	SE	5	110
11	.925	.890	77.9	79.3	87.3	74.3	13.0	72.5	74.1	84	84	ESE	6	ESE	7	SE	6	143
12	.963	.928	75.7	78.3	86.5	73.1	13.4	71.8	71.7	88	80	E	3	SE	10	SE	5	109
13	.952	.894	75.9	78.7	88.5	71.6	16.9	69.6	77.0	81	94	E	4	SE	6	SE	4	87
14	.922	.852	72.6	85.4	87.4	70.9	16.5	69.6	76.0	90	74	N	1	S	6	Var.	4	92
15	.909	.856	71.2	77.6	78.3	69.1	9.2	64.6	72.2	91	84	N	2	Z	0	Var.	2	52
16	.906	.857	73.9	79.3	85.9	72.2	13.7	69.9	71.1	87	75	N	1	N	4	Var.	3	63
17	.857	.799	72.9	74.7	85.9	70.3	15.6	68.0	73.2	94	95	N	4	Z	0	S	3	65
18	.859	.801	71.4	81.5	85.3	69.3	16.0	63.1	72.1	89	73	N	4	S	4	SSW	3	70
19	.869	.828	73.4	82.9	84.0	69.9	14.1	72.0	72.4	95	71	N	1	S	5	SSE	3	69
20	.910	.885	75.6	83.4	84.3	70.9	13.4	73.2	71.9	92	63	SE	3	SSE	8	SE	4	92
21	.932	.901	73.0	79.2	80.6	72.2	8.4	72.0	73.3	97	82	ESE	2	S	3	S	3	73
22	.961	.906	74.4	82.2	84.2	72.3	11.9	72.8	73.9	95	76	Z	0	S	4	SSE	2	55
23	.954	.890	73.5	82.7	85.4	71.2	14.2	71.2	72.8	92	72	N	2	SE	3	Var.	2	55
24	.944	.871	72.7	84.1	85.6	69.6	16.0	71.5	64.6	96	52	SE	1	S	5	S	3	62
25	.904	.870	72.6	85.2	86.6	69.9	16.7	69.8	70.2	91	61	N	1	N	4	Var.	3	61
26	.921	.878	74.8	77.4	85.8	70.8	15.0	71.5	74.9	87	92	N	1	S	2	S	2	55
27	.936	.895	73.3	78.2	86.3	71.1	15.2	72.1	73.0	96	84	N	1	W	4	S	3	61
28	.903	.835	75.3	81.4	84.5	72.2	12.3	69.2	68.0	81	64	N	3	NNW	12	NNW	7	170
29	30.087	.973	74.9	85.6	88.3	72.0	16.3	70.6	70.9	87	62	NNW	4	S	5	NNW	4	104
30	.046	.922	73.6	84.4	86.3	72.2	14.1	72.6	74.9	97	73	N	3	N	9	Var.	2	65
31	29.990	.895	74.1	85.2	88.7	71.2	17.5	73.5	72.0	93	65	N	1	SSW	4	SSW	2	66
Means.	29.942	29.866	74.2	81.9	86.0	71.7	14.3	71.3	72.6	91	74	N	2.0	SSE	5.1	SSE	3.2	76.5

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March 28, 2002

KINGSTON:—METEOROLOGICAL RESULTS.

Elevation above Sea-level 50 feet

Date.	Upper Cloud. (in tenths of the sky).		Lower Cloud. (in tenths of the sky.)		Rainfall.	Weather: Remarks, &c.
	7 a.m.	3 p.m.	7 a.m.	3 p.m.		
1	10 Cir. s. E	...	...	2 Cum. } E	0.02	Fine a.m. Thunder to N. at about 1 p.m. Rain 3.30 p.m.
2	10 Cir. & Cir. s. E	...	...	8 Str. c. }	0.02	Fair a.m. Cloudy p.m. and rain at 5 p.m.
3	4 Cir. } E	...	...	9 Str. & Str. c.	0.29	Fine a.m. Thunder to N. 2.30 p.m. Rain 3 p.m.
4	6 Cir. s. }	...	10 Nim. & Cum. Nim.	10 Str.	0.50	Rain 4.30 to 5 and 7.30 to 11 a.m. Cloudy afterwards.
5	...	...	...	...	0.00	Fine.
6	...	...	...	8 Str. c.	0.00	Fine a.m. Fair p.m.
7	6 Cir. & Cir. s. S	8 Cir. & Cir. s. E	4 Str. c.	2 Str. c.	0.00	Fair.
8	3 Cir. & Cir. s. E	9 Cir. s. E	7 Cum. & Str. c. E	1 Cum.	0.00	Cloudy a.m. Fair p.m.
9	1 Cir. c.	1 Cir. c.	8 Cum. & Str. c. E	9 Str. c. SE	0.00	Fair a.m. drizzle at 8 p.m.
10	...	...	SE 6 Str. c. }	10 Str.	0.01	Drizzle at 10 a.m. and at 3.15 p.m. Cloudy p.m.
11	10 Cir. & Cir. s. N	4 Cir. N	2 Str. }	6 Str. c.	0.20	Fine a.m. Rain 1.45 p.m. Squally 9 p.m.
12	...	...	8 Cum. SE	10 Cum. & Cum Nim.	0.13	Squally 2, 6, and 7.30 a.m. Rain 8 a.m. Squally 2.45 p.m. Cloudy day.
13	...	...	5 Str. c.	10 Nim.	0.40	Fine a.m. Drizzle at Noon. Rain 1.30 to 3.10 p.m.
14	...	...	...	1 Cum. }	1.14	Fine a.m. Rain 3.15 to 6 p.m. and light thunder.
15	...	...	9 Str. E	4 Cum. Nim. }	0.01	Cloudy Rain 11 a.m. drizzle 10.15 p.m., with SE. squall.
16	...	...	10 Cum. & Str. c. NW	10 Cum. Nim. & Nim.	0.06	Fair a.m. Thunder to N. 1 p.m. Rain 1.30 to 2.30 p.m.
17	...	...	1 Cum. NW	10 Str. & Str. c. NW	0.68	Fine a.m. Rain 1.30 to 2 p.m. and at 5 p.m. Cloudy p.m.
18	...	...	3 Cum. SW	10 Cum. Nim. SW	1.80	Fine a.m. Heavy rain 4 to 4.40 p.m. with thunder 1.89 in. in 40 mins.
19	...	6 Cir. W	10 Str. & Str. c. SE	8 Cum. & Str. SE	0.11	Cloudy a.m. Rain 11 a.m. Rain 1 to 1.30 p.m.
20	...	...	10 Nim.	10 Str. & Str. c. SE	0.68	Cloudy a.m. Rain early morning, and from about 3 p.m.
21	...	...	10 Nim.	10 Str. & Cum. SE	0.80	Rain continuing until noon. Cloudy p.m. SE. squall 5.30 p.m.
22	...	...	10 Str.	10 Str. & Str. c. SE	0.02	Cloudy and hazy at 7 a.m. Rain 3.30 to 4.30 p.m. Cloudy p.m.
23	...	1 Cir. E	...	9 Str. c. SE	0.06	Fair to 11 a.m. Thunder to N. with rain 11 a.m. Rain again 1.15 to 2.30 p.m. and at 4.30 p.m.
24	...	...	...	1 Str. } SE	0.00	Fine.
25	...	...	...	1 Cum. }	0.01	Fine a.m. Thunder to N. 2 to 3 p.m. Rain to N. 3 p.m. with lightning.
26	...	...	4 Str. c.	10 Str. & Cum. Nim.	0.21	Fine a.m. Cloudy p.m. drizzle 2 p.m. Rain 4.30 to 6 p.m.
27	...	...	6 Cum. SW	2 Str. }	0.01	Fine a.m. drizzle at 6 p.m.
28	8 Cir. c. } W	4 Cir. c. W	...	8 Cum. Nim. }	0.00	Fine a.m. Norther from midnight to 7 p.m.
29	1 Cir. s. }	...	...	5 Str. W	0.00	Norther.
30	2 Cir. s. }	...	8 Cum. & Str. c. E	10 Str. & Str. c. E	0.12	Norther continuing to 16 a.m. Rain 5.30 to 6.30 a.m. and from 2.30 to 5 p.m.
31	3 Cir. W	...	10 Str. c. & Cum. Nim.	10 Str.	0.00	Fair.
31	3 Cir. W	...	6 Cum. E	8 Str. c.	0.00	Fair.
Means.	21 o/o	11 o/o	47 o/o	80 o/o		"Seasons."
Total.					7.36	

RESULTS AT OTHER STATIONS.

STATION.	ELEVATION	MEANS FOR THE MONTH.										EXTREMES FOR THE MONTH.						Total Rainfall.				
		Temperature.						Dewpoint.		Humidity.		Temperature.										
		7 a.m.		3 p.m.		Max.	Min.	Range.	7 a.m.		3 p.m.		7 a.m.		3 p.m.		Max.		Date.	Min.	Date.	Range.
		°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°		°	°	°	°
Kings House	400	71.9	82.0	87.1	67.7	19.4	68.7	77.9	90	87	92	5	64	31	28	9.60						
Castleton Gardens	580	71.0	77.4	81.1	69.5	11.5	70.0	74.1	95	90	88	3	65	24	23	82.92						
Hope Gardens	600	72.5	78.7	81.8	71.9	9.9	69.7	73.9	90	84	87	6	66	18	21	16.75						
Stony Hill Reformatory	1,400	71.6	75.8	80.0	66.1	13.9	67.9	70.0	88	82	88	5 & 24	63	1	25	11.61						
Cinchona Plantation	4,007	61.3	63.4	67.7	60.1	7.6	57.9	60.6	89	98	73	13	54	30	19	32.65						

THE HEALTH OF KINGSTON.

The following Table shows the number of deaths in Kingston during the month from a few groups of diseases, compared with the average number for the Month for the ten years 1881-1890:—

	OCTOBER.	
	1892.	Average.
Infantile diseases not otherwise specified	14	13
Lung diseases	15	14
Fever	8	7
Dysentery and Diarrhoea	9	4
Various	33	54
Total	79	92

CINCHONA PLANTATION.

The following are means for the month in addition to those published above:—

Barometric pressure	7 a.m.	25.295
"	3 p.m.	25.269
Temperature—		
6 feet underground	7 a.m.	63.3
"	3 p.m.	63.3
Direction of the wind	...	SE
Velocity of the wind in miles per day		20.5

The maximum and minimum temperatures for the month at Newhaven Gap were respectively 75.3 and 54.5 and the rainfall was 44.85 in.

BLUE MOUNTAIN PEAK:—ELEVATION 7,406 FEET

DAY.	HOUR.	TEMPERATURE.		Temp.	Rain.	Remarks.	Observer's Initials.
		Max.	Min.				
1892.		°	°	°	in.		
January 30th	11.15 a.m.	70	35	60	14.80	Clear and sunny.	M. F. B.
February 27th	11.30 a.m.	73	42	60	8.00	Fine, bright and windy.	M. F. B.
April 2nd	11.35 a.m.	73	38	55	2.65	Cold cloudy with rain.	M. F. B.
April 30th	1.40 p.m.	73	39	61	6.85	Cloudy no rain.	M. F. B.
May 28th	10.30 a.m.	70	45	65	11.80	Cloudy with rain.	M. F. B.
June 29th	10.15 a.m.	71	45	53	27.30	Fine, bright, high wind.	M. F. B.
July 29th	11.30 a.m.	69	46	66	6.15	Fine, clear all round.	M. F. B.
Sept. 5th	10.20 a.m.	74	45	68	4.60	Fine, bright no wind.	M. F. B.
Oct. 1st	10.30 a.m.	74	52	66	7.85	Fine, and sunny.	M. F. B.
Nov. 1st	3.15 p.m.	70	45	54	42.60	Fine, bright and windy.	M. F. B.

NOTE—The Barometric pressure is the reading of the Barometer corrected for instrumental error, and reduced to 32°; that of Kingston being further reduced to Sea-level. The Thermometers are similarly exposed in Stevenson's screens at all the above Stations; their readings have all been corrected.

RAINFALL FOR OCTOBER, 1892.

The first columns contain all the Rainfall Returns sent in for publication up to the date of this report; the second columns contain the corresponding average Rainfall according to the Tables published in January, 1892, as No. 124 (A) of the present series of Reports. In obtaining the mean Rainfall for the month from the numbers in the first columns, only those Stations are considered for which the average Rainfall has been given in the second columns; so that the results of these two columns are directly comparable. These results are more clearly shown in the Comparative Table at the end of these Rainfall Returns:—

NORTH-EASTERN DIVISION.

OCTOBER

1892. | Average.	
In.	In.

Hordley	St. Thomas	12.83	14.95
Manchioneal	Portland	23.55	...
Bath P. W. D.	St. Thomas	15.95	...
Boston	Portland	16.38	13.56
Port Antonio P. W. D.	...	11.75	13.39
Fellowship P. W. D.	...	24.98	...
Cinchona Plantation	St. Andrew	32.65	17.88
Buff Bay P. W. D.	Portland	12.03	...
Balcarres P. W. D.	...	32.65	...
Cold Spring	St. Andrew	25.29	...
Annotto Bay P. W. D.	St. Mary	4.26	...
Stony Hill Reformatory	St. Andrew	11.61	13.30
Castleton Gardens	St. Mary	32.92	13.71
Lawrence's Tavern P. W. D.	St. Andrew	7.42	...
Quebec	St. Mary	...	8.35
Richmond P. W. D.	...	...	...
Highgate	...	9.36	...
Free Hill P. W. D.	...	...	...
Gayle	...	13.40	11.11
Lucky Hill P. W. D.	...	11.82	...
Bio Hoo	St. Ann	12.97	10.29

NORTH-EASTERN DIVISION, contd.

OCTOBER

1892. | Average.	
In.	In.

Unity Valley	...	14.79	8.39
Moneague P. W. D.	...	13.86	...
Claremont	...	11.52	...
Pedro P. W. D.	...	...	...
Albion	...	13.29	8.14
Averham Park	...	11.22	5.69
Ballintoy	...	11.55	...
Means		16.71	11.81

NORTHERN DIVISION.

OCTOBER.

1892. | Average.	
In.	In.

Port Maria P. W. D.	St. Mary	9.10	7.74
Drax Hall	St. Ann	7.74	7.00
St. Ann's Bay P. W. D.	...	7.64	...
Seville	...	...	6.09
Richmond Estate	...	6.22	8.14
Llandovery	...	...	7.53
Southfield	...	17.10	...
Brewer's Town P. W. D.	St. Ann	17.01	...
Home Castle	...	10.17	6.13
Richmond Pen.	...	5.75	6.61
Mahogany Hall	Trelawny	13.12	6.26
Braco	...	9.88	4.95
Arcadia	...	10.46	5.55
Harmony Hall	...	10.98	4.63
Lancaster	...	9.96	5.50
Vale Royal	...	10.71	6.08
Colchis Pen	...	10.16	6.14
Hyde	...	12.62	7.16
Georgia	...	...	5.67
Steelfield	...	6.55	5.94
Oxford	...	4.71	6.93

NORTHERN DIVISION, *contd.*

		OCTOBER.	
		1892.	Average.
		In.	In.
Cambridge	...	7.20	5.84
Dry Valley	...	6.20	...
Lottery	...	4.90	5.92
Falmouth	...	11.40	5.55
Falmouth P. W. D.	...	6.95	...
Holland Pen	...	13.31	4.44
Pembroke	...	7.28	5.22
Golden Grove	...	5.95	6.06
Tilston	...	10.80	6.28
Weston Favela	...	12.13	6.63
Green Park	...	...	5.09
Orange Valley	...	10.70	5.15
Kent	...	9.03	5.57
Dundee	...	10.29	5.46
Phoenix	...	13.17	8.51
Gale's Valley	...	9.94	5.88
Greenwood	St. James	13.21	4.65
Canaan	...	10.52	...
Bellfield	...	...	...
Gullsbro'	...	5.05	6.51
Tryall	...	9.04	...
Leogan	...	6.30	7.21
Cinnamon Hill	...	...	3.69
Rose Hall	...	...	4.17
Running Gut	...	8.00	4.77
Spring	...	8.30	...
Ironshore	...	4.96	4.85
Friendship	...	7.05	...
Providence	...	...	4.88
Montego Bay P. W. D.	...	8.06	...
Catherine Hall	...	9.60	6.76
Catherine Mount	...	6.77	6.65
Fairfield	...	5.87	6.10
Anchovy	...	8.35	6.99
Eden	...	6.41	6.96
Wiltshire	...	...	7.13
Round Hill	Hanover	3.80	5.14
Flint River	...	4.77	...
Tryall	...	5.14	5.67
Sandy Bay P. W. D.	...	6.60	...
Kew	...	...	7.91
Lucea P. W. D.	...	...	7.73
Haughton Court	Hanover	...	5.54
Orange Cove	...	6.22	7.69
CENTRAL SUB-DIVISION—			
Headworks, R. C. C. St. Catherine	...	11.73	9.09
Linstead P. W. D.	...	12.16	8.80
Ewarton	...	...	...
Chapelton P. W. D. Clarendon	...	...	11.58
Trout Hall	...	12.95	...
Cave Valley	St. Ann	11.09	9.45
Means		8.84	6.33

WEST CENTRAL DIVISION.

		OCTOBER.	
		1892.	Average.
		In.	In.
Farm Plantation	Manchester	20.29	13.84
Brokenhurst Plantation	...	...	10.60
Christiana P. W. D.	...	7.97	...
Mandeville P. W. D.	...	13.65	17.19
Ulster Spring P. W. D. Trelawny	...	5.30	...
Troy	Trelawny	15.36	...
Windsor Pen	...	7.66	7.03
Balacava P. W. D. St. Elizabeth	...	...	...
Appleton	...	6.44	11.51
Magotty	...	...	...
Spring Vale	St. James	...	8.81
Maroon Town	...	...	11.02
Kempsbot	...	15.24	6.86
Kepp	St. Elizabeth	9.67	10.76

*Gauge overflowed on 27th at 5.10 in.

WEST CENTRAL DIVISION, *contd.*

		OCTOBER.	
		1892.	Average.
		In.	In.
Kew Park	Westmoreland	6.50	9.54
Mount Carey	St. James	33.95	...
Woodstock	Westmoreland	...	8.73
Windsor Forest	...	...	12.49
Struie	...	...	9.80
Chester Castle	Hanover	7.57	8.05
Darliston P. W. D.	Westmoreland	10.37	...
Haughton Grove	Hanover	...	9.03
Copse	...	9.85	8.96
Cacoon Castle	...	11.29	7.83
Golden Grove	...	8.40	9.45
Three Mile River	Westmoreland	...	...
George's Plain Estate	...	...	...
Fontabelle	...	8.39	9.81
King's Valley	...	...	11.56
Abingdon	Hanover	9.65	7.23
Means		10.35	9.85

SOUTHERN DIVISION.

		OCTOBER.	
		1892.	Average.
		In.	In.
Morant Point L. H., St. Thomas	...	9.90	10.44
Morant Bay P. W. D.	...	9.30	...
Abbey	...	14.73	11.89
Bull Bay P. W. D. St. Andrew	...	8.63	...
Gordon Town	...	21.03	...
Hope Gardens	...	16.78	8.45
Cherry Garden	...	14.79	9.16
King's House	...	9.60	8.54
Shortwood	...	...	...
Constant Spring	...	...	...
Monaltrie	...	11.34	8.56
Halfway-Tree P.W.D.	...	9.25	...
Camperdown†	...	9.00	...
Public Works Office, Kingston	...	7.36	7.48
Plumb Point L. H.	...	4.56	7.48
Spanish Town P.W.D. St. Catherine	...	14.15	7.72
Windsor Park	...	...	6.39
Hug Hole Pen	...	23.23	7.85
Old Harbour P. W. D.	...	15.94	9.72
May Pen P. W. D. Clarendon	...	...	...
Manningsfield P. W. D.	...	...	...
Stone's Hope	Manchester	15.15	10.89
Alligator Pond P.W.D.	...	14.79	...
Potsdam	St. Elizabeth	10.23	8.77
Long Hill	...	12.26	10.43
Pepper	...	16.20	11.16
Torrington P. W. D.	...	...	...
Santa Cruz P. W. D.	...	...	...
Santa Cruz Poorhouse	...	8.37	10.41
Black River P. W. D.	...	10.24	8.69
Grand Vale	Westmoreland	7.80	...
Peter's Ville	...	7.05	...
Mount Edgecombe	...	7.18	9.48
Sweet River	...	...	8.57
Windsor (Sav.-la-Mar)	...	...	7.70
Sav.-la-Mar P. W. D.	...	5.64	...
Retreat	...	6.40	...
Means		12.34	9.28

† Actual amount registered 8.52—difference being the estimated fall on the 4th which was lost.

COMPARATIVE TABLE OF RAINFALL.
(Based upon the "Average" Stations only.)

	OCTOBER.	
	1892.	Average.
	In.	In.
North-Eastern Division	16.71	11.81
Northern " "	8.84	6.33
West Central " "	10.35	9.85
Southern " "	12.34	9.28
The Island	12.66	9.32

The greatest fall, viz., 33.95 inches, was recorded at Mount Carey in St. James, and the smallest, 3.80 inches, at Round Hill, Hanover. The fall at Blue Mountain Peak however for the month ending 1st November, was 42.60 in.

Below will be found a statement of the Rainfall recorded during this year compared with the average fall during the months in question.

	Rainfall recorded in 1892.	Average Rainfall.
January	3.70	4.14
February	1.15	2.53
March	2.22	3.06
April	2.73	4.79
May	8.38	9.61
June	7.04	8.47
July	4.30	5.27
August	7.73	7.89
September	8.51	7.30
October	12.06	9.32
Total	57.82	62.32

The Rainfall as a whole was one third in excess of the average fall for October. If we look at the Island in Divisions we find that the North Eastern had as usual the largest fall and that contrary to custom the Southern, which has usually the least fall, comes next and that then come the West Central and Northern Divisions in the order named, and that in each case the fall was in excess of the average, the greatest comparative excess being in the North Eastern, viz.: nearly half as much again.

From a review of the Divisions in detail and additional notes forwarded by observers we find the following:

In the North Eastern and Northern Divisions the last week of the month was apparently responsible for by far the larger portion of the total fall for the month, e.g. Gayle and Averham Park report that out of totals of 13.40 inches and 11.22 inches respectively, there fell 10 inches in the last five days. At Pembroke in Trelawny out of a total fall of 7.28 inches, more than half or 4.25 inches fell on the 27th, and at Weston Favel on the same day the gauge overflowed after recording a fall of 5.10 inches, and eleven and a half inches fell at this latter place on the last six days as against half an inch in the previous twenty-five days. At Flint River 4 inches out of 4.77 fell on the 30th and at Canaan Pen in St. James 10.25 inches, fell in the last week of the month, the whole fall being 10.56 inches.

From Pepper Pen, too, in the Southern Division, Mr. E. W. Muirhead writes:—"On the 25th, 26th and 27th, (although only 1.80 inches here on the 27th) there was very heavy rain on this side of the Manchester Hills, which brought down the gullies very heavily and flooded the whole district. The Parochial Road for some distance was entirely under water, the new road on Spur Tree much damaged."

The fall of 33.95 inches, at Mount Carey in St. James, was nearly equalled at the following places: Cinchona Plantation with 32.65 inches, Balcarres with 32.55 inches, and Castleton Gardens with 32.92. At this latter place 19 inches fell on the 30th and at the

Cinchona Plantation 10 inches fell on the 30th and again on the 31st.

At many places there were falls largely in excess of the average. In addition to the places above mentioned this occurred at Albion, Unity Valley and Home Castle in St. Ann, at Mahogany Hall, and nearly all the recording stations in Trelawny, and at Cherry Garden, Monaltrie, Spanish Town, Hog Hole Pen, Old Harbour and Pepper in the Southern Division. In the West Central Division with the exception of Kempshot such comparative excesses as the above are not strongly marked, although the general average is well maintained and even exceeded.

On the other hand at Appleton in the West Central and Plumb Point Light House in the Southern Division the fall is not much more than half the average.

On Tuesday the 18th there occurred in Kingston a remarkable fall of rain which, taken in conjunction with the action of the barometer, is worthy of separate notice. The rain in Kingston began at 4 p.m., and lasted till 4.40 p.m., and in that time there fell 1.89 inches, which is at the rate of 2.83 inches per hour. The barometer began to make a sudden rise at 3.55 p.m., rose .032 inches in 15 minutes and then immediately fell .025 inches in the next 35 minutes, the whole action lasting 50 minutes (as near as can be measured) and thus almost exactly coinciding with the beginning and end of the heavy rain. The rate of rise of the barometer was three times as rapid as the rate of fall, the former being .128 inches per hour and the latter .043 inches per hour. The barometric readings are taken from the charts of the recording mercurial barometer which records variations of pressure automatically by photography.

This fall of rain on the 18th was peculiarly local. At Plumb Point Light House the fall was only 0.03, at King's House 0.25, at Stony Hill 0.20, at Cherry Garden 0.42, while there was no rain at the Hope Gardens. The only other place in the neighbourhood with heavy rain that day was Monaltrie where a fall of 2.70 was recorded.

From a telegram received from Santiago de Cuba on the 3rd October it appeared that the barometer at that place was a tenth of an inch lower than at Kingston and a notice giving this information and stating that the indications pointed to a cyclone forming or formed far to the North of us and of Santiago, with no chance of its coming near Jamaica, was issued on the 3rd with the usual Weather Report for that day.

On the 7th, 8th, and 10th, telegrams were again exchanged with Santiago, and the following notice was issued on the 8th with the report for that day: "Information was received last night that a severe storm was experienced at La Guayra the same afternoon which is no doubt the disturbance which passed Trinidad the preceding day. The barometer was rising yesterday and this morning and today is above the mean. There are no indications up to the present of this storm coming near Jamaica; but of course if necessary a further notice will be issued later." It did not prove necessary to issue any further notice (of warning) as the later indications did not point to the near approach of this storm to Jamaica. A careful watch was however kept on the barometer which fell slightly on the 9th and again on the 10th. The United States Pilot Chart for November supports this by tracing its course as follows.* The centre passed a little North of Trinidad on the 6th and of La Guayra on the 7th and continued its course nearly due West over the Spanish Main where it slightly curved taking a West by North course until by 7 a.m. on the 11th it is supposed to have reached the Central American coast passing far to the South of Jamaica between the 9th and 10th.†

* In dotted lines to denote uncertainty as to exact course.
† At a distance about equal to that between Kingston and Turks Island.

This agrees fairly well with newspaper accounts which have reached Jamaica, e.g.: The Norwegian Steamer Washington "reports on October 10, Latitude 14° 46' N, Long. 83° 26' W., encountered a hurricane from NNW, around to WSW, lasting until 2 a.m., October 11th." Another Norwegian steamer the "Agnes" from Bluefields "reports having on October 10 at 8 p.m., encountered a hurricane from West veering to South West and South," but no further details as to her position at the time are given. There is also a report from San Andreas that a cyclone began there on the 8th and lasted fourteen hours, but this does not agree with the preceding reports and the Pilot Chart, according to which the storm did not pass to the North of San Andreas till the night of the 10th, being between Maracaibo and Savanilla on the 8th.

On the 17th and 18th the barometer remained about a tenth of an inch below the mean having begun to fall on the 14th, and this large shallow depression over Jamaica on the 17th and 18th may possibly have given

rise to or developed into a storm which by the Pilot Chart is supposed to have been North of Belize on the 22nd. It was on the 18th that there occurred the heavy shower in Kingston, above referred to.

On the 27th a shallow depression passed over Jamaica from the Westward giving us the first "Norther" of the season, and as will be seen from preceding remarks, was attended with very heavy falls of rain giving some places in fact nearly all the rain they received in the month. On the 26th at Lucea there was rain from the South and on the 27th wind and rain came from the North, the strongest wind being thirty miles per hour at 4 p.m. on the 27th. The Norther commenced in Kingston soon after midnight of the same day, i.e., in the early morning of the 28th and blew during the day at an average rate of 10 miles per hour, while between 3 and 4 p.m., 14 miles were recorded.

ROBT. JOHNSTONE.

17th November, 1892.